

ABSTRACT

The present invention relates to a radiation sensitive liposome, and the use of this liposome as carrier for therapeutic and diagnostic agent(s). In particular, the invention encompasses a liposomal delivery system, comprising a stable liposome-forming lipid and a polymerizable colipid, a fraction of which polymerizable colipid polymerizes upon exposure to ionizing radiation, thereby destabilizing the liposomal membrane. Destabilization of liposomes allows for leakage of liposomal contents. The present invention further contemplates methods of diagnosing and treating conditions and diseases that are responsive to liposome-encapsulated or associated agents.

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